The Model KFD0 Loop Powered, Galvanic Barrier provides complete isolation for communication with Dwyer® intrinsically-safe transmitters approved for use in hazardous areas. Galvanic barrier eliminates the need for a high integrity earth ground required when using shunt type diode type safety barriers. Unlike most other isolators, the Model KFD0 does not require external power and has a low current draw. The housing is designed to easily mount on most standard DIN rails.

**SPECIFICATIONS**

**Hazardous Area Input:**
- Signal range: 4 to 20 mA (linear transmission 1-22 mA);
- Available transmitter voltage: ≥16 V for supply voltage > 21 V.

**Safe Area Output:**
- Signal range: 4 to 20 mA;
- Transmitter voltage: ≤30 VDC.

**Response Time:**
- ≤20 µs at 0, and ≤600 µs at 800 load.

**Maximum Power Disipation:**
- 150 mW @ 20 mA and V<24 V.

**Temperature Limits:**
- -4 to 140°F (-20 to 60°C).

**Temperature Drift:**
- ≤0.5 µA/°C.

**Weight:**
- 4.2 oz (120 g).

**Agency Approvals:**
- CE, FM.

<table>
<thead>
<tr>
<th>Model</th>
<th>Approval</th>
<th>Dwyer Series</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD0-SCS-EX1.55</td>
<td>FM for Class I, Zone 1, Groups IIC, IIB, IIA, Class I, II, III, Div. 2, Groups A, B, C, D, F, G</td>
<td>HHT-IX</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Model</th>
<th>Vo (V)</th>
<th>Io (mA)</th>
<th>Group</th>
<th>µF</th>
<th>mH</th>
</tr>
</thead>
<tbody>
<tr>
<td>KFD0-SCS-EX1.55</td>
<td>23.1</td>
<td>38.2</td>
<td>IIC (A, B)</td>
<td>0.042</td>
<td>0.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IIB (C)</td>
<td>0.267</td>
<td>2.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>IIA (D, F, G)</td>
<td>0.267</td>
<td>2.5</td>
</tr>
</tbody>
</table>